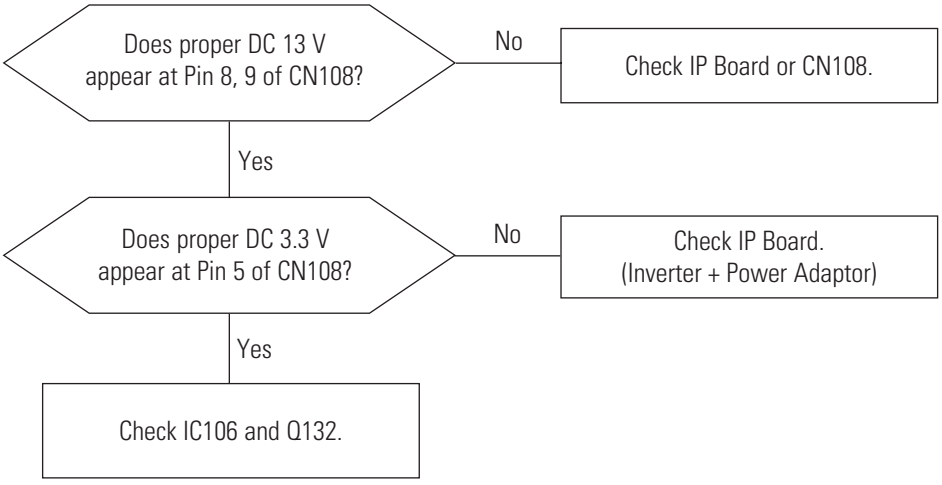
5-1 Troubleshooting (GY15VS*)

Notes: 1. Before troubleshooting, setup the PC's display as below.
- Resolution: 1024 x 768
- H-frequency: 48 kHz
- V-frequency: 60 Hz

2. If no picture appears, make sure the power cord is correctly connected.
3. Check the following circuits.
- No raster appears: Audio PCB, SMPS PCB, Main PCB
- 12V develop but no screen: Main PCB
- 12V does not develop: Main PCB

4. If you push and hold the "EXIT" button for more than 5 seconds, the monitor automatically returns to the factory preset.

5-1-1 No Power


Does proper DC 13 V appear at Pin 8, 9 of CN108?
No
Check IP Board or CN108.
Yes
Does proper DC 3.3 V appear at Pin 5 of CN108?
No
Check IP Board. (Inverter + Power Adaptor)
Yes
Check IC106 and Q132.

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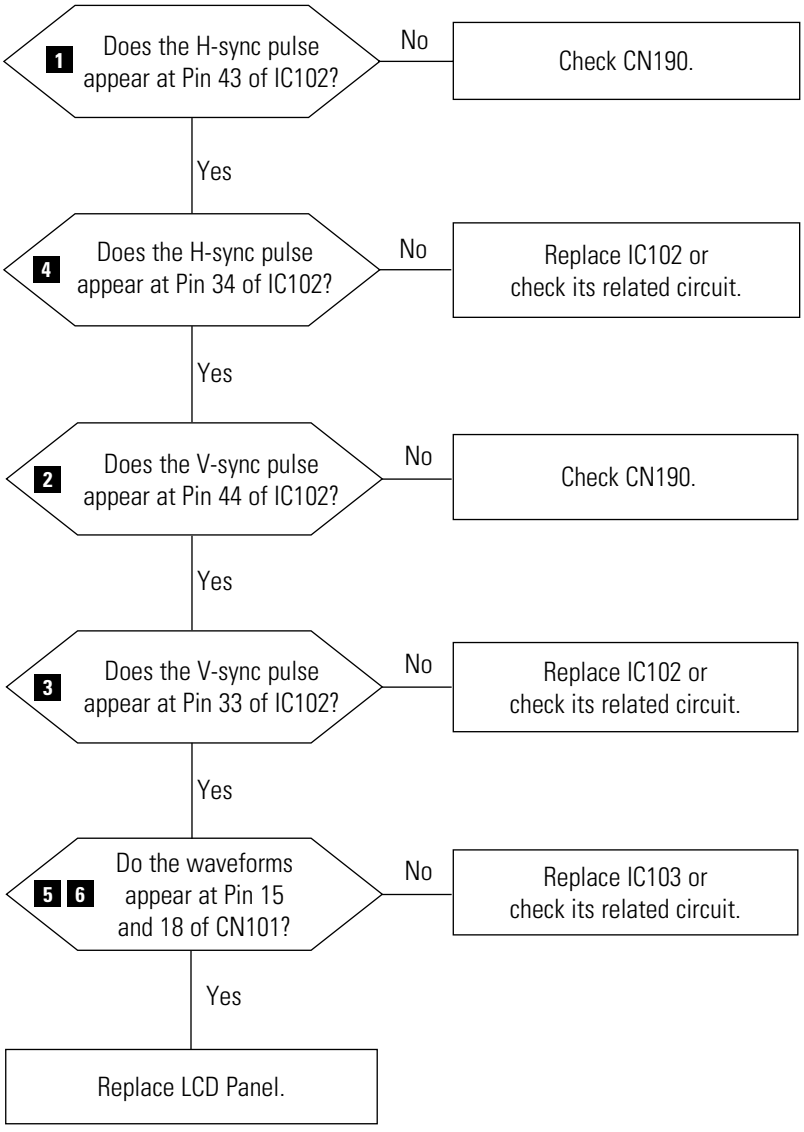
5-2-1 No Video



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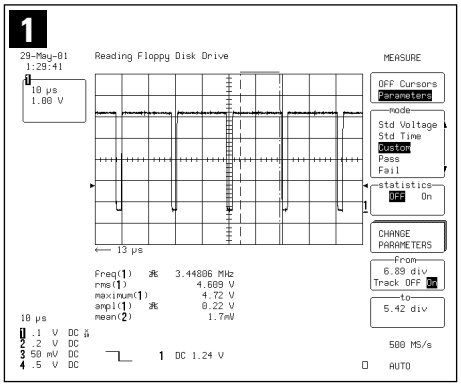
WAVEFORMS

1



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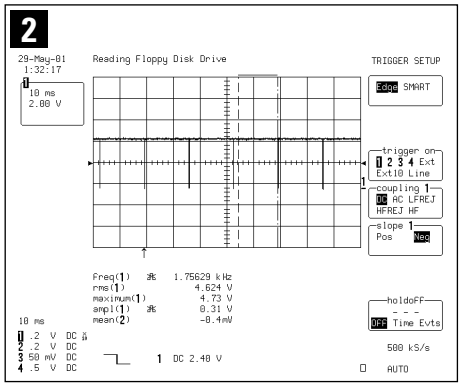

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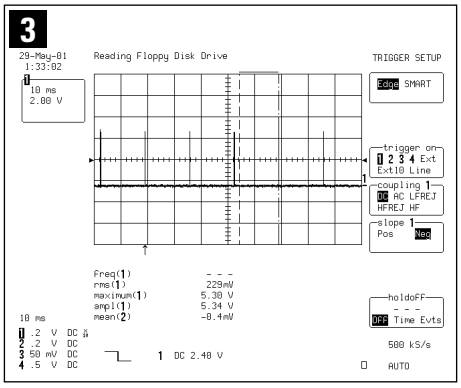

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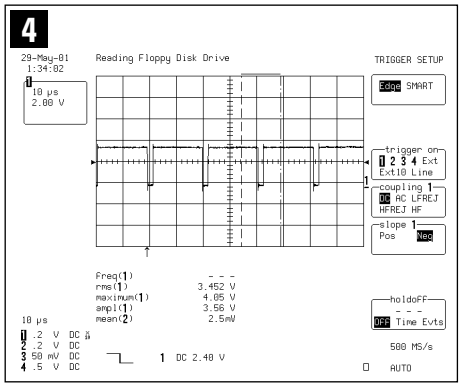

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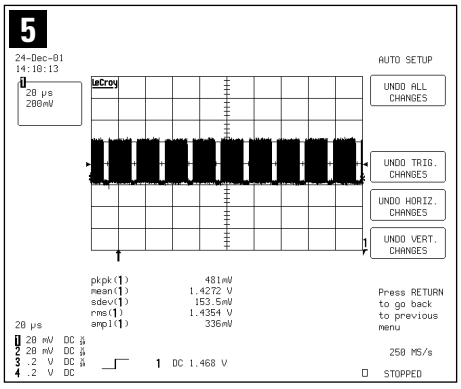

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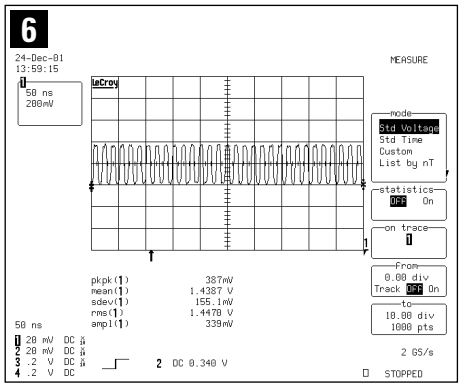
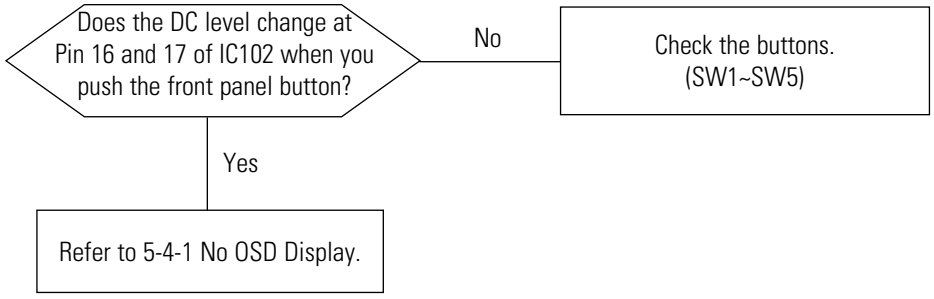
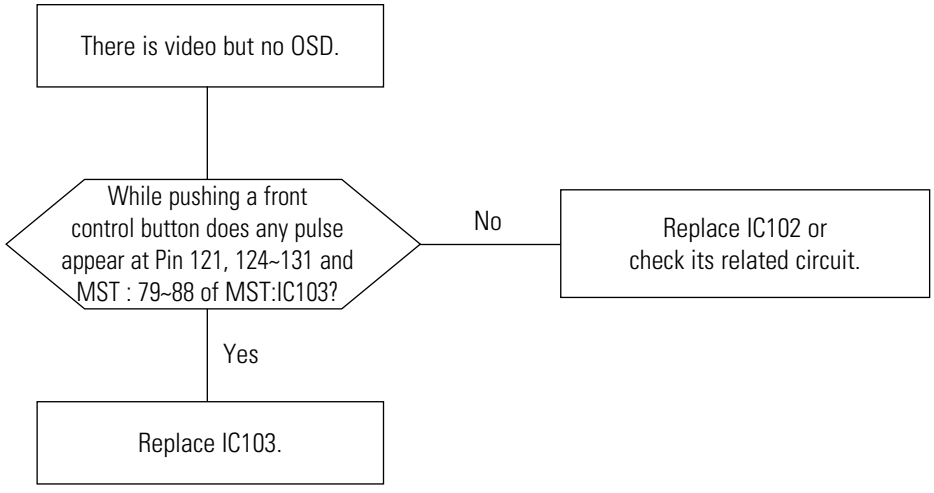


5-3-1 User Controls Don't Work


Does the DC level change at Pin 16 and 17 of IC102 when you push the front panel button?
No
Check the buttons. (SW1~SW5)
Yes
Refer to 5-4-1 No OSD Display.

5-4-1 No OSD


There is video but no OSD.
While pushing a front control button does any pulse appear at Pin 121, 124~131 and MST : 79~88 of MST:IC103?
No
Replace IC102 or check its related circuit.
Yes
Replace IC103.

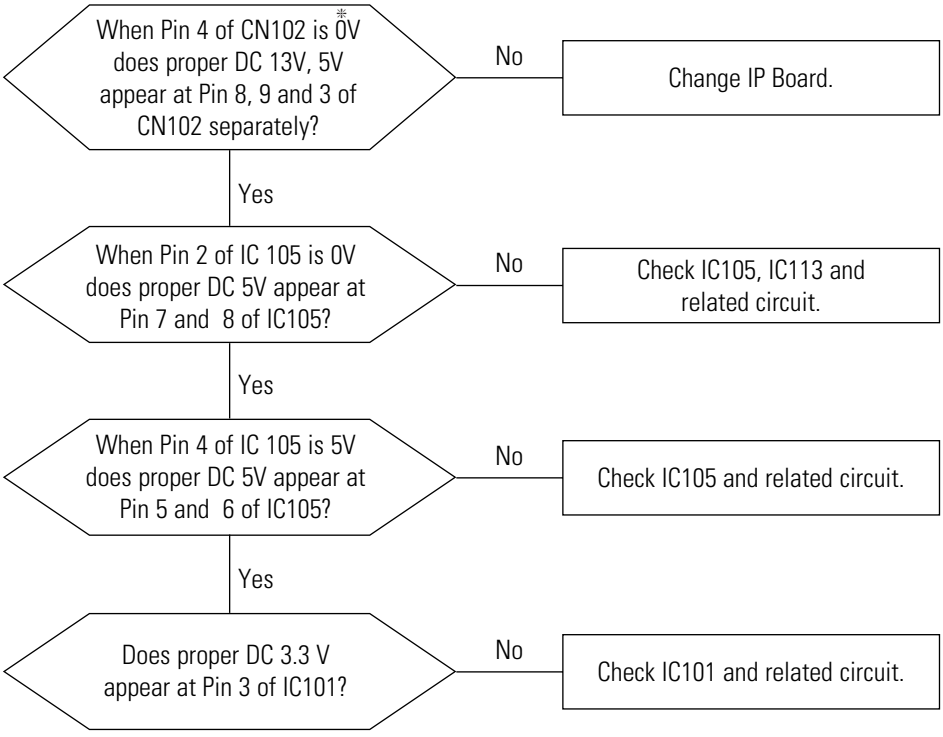
5-2 Troubleshooting (GY17VS*)

Notes: 1. Before troubleshooting, setup the PC's display as below.
- Resolution: 1280 x 1024
- H-frequency: 64 kHz
- V-frequency: 60 Hz

2. If no picture appears, make sure the power cord is correctly connected.
3. Check the following circuits.
- No raster appears: Audio PCB, SMPS PCB, Main PCB
- 14V develop but no screen: Main PCB
- 14V does not develop: Main PCB

4. If you push and hold the "EXIT" button for more than 5 seconds, the monitor automatically returns to the factory preset.

5-2-1 No Power


When Pin 4 of CN102 is 0V* does proper DC 13V, 5V appear at Pin 8, 9 and 3 of CN102 separately?
No
Change IP Board.
Yes
When Pin 2 of IC 105 is 0V does proper DC 5V appear at Pin 7 and 8 of IC105?
No
Check IC105, IC113 and related circuit.
Yes
When Pin 4 of IC 105 is 5V does proper DC 5V appear at Pin 5 and 6 of IC105?
No
Check IC105 and related circuit.
Yes
Does proper DC 3.3 V appear at Pin 3 of IC101?
No
Check IC101 and related circuit.

* 0V means power on state.

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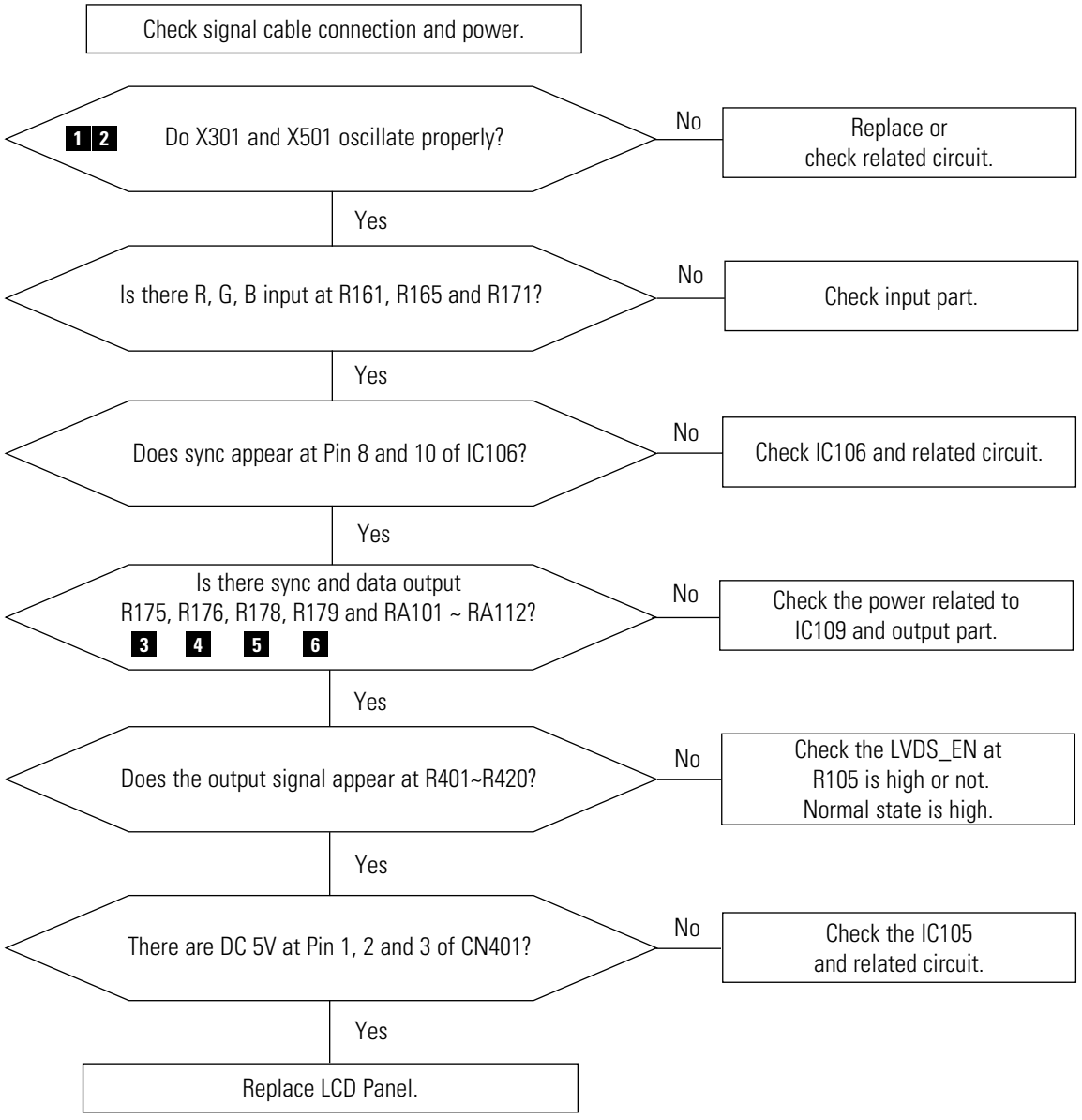
5-2-2 No Video


Check signal cable connection and power.
1 2
Do X301 and X501 oscillate properly?
No
Replace or check related circuit.
Yes
Is there R, G, B input at R161, R165 and R171?
No
Check input part.
Yes
Does sync appear at Pin 8 and 10 of IC106?
No
Check IC106 and related circuit.
Yes
Is there sync and data output R175, R176, R178, R179 and RA101 ~ RA112?
3 4 5 6
No
Check the power related to IC109 and output part.
Yes
Does the output signal appear at R401~R420?
No
Check the LVDS_EN at R105 is high or not. Normal state is high.
Yes
There are DC 5V at Pin 1, 2 and 3 of CN401?
No
Check the IC105 and related circuit.
Yes
Replace LCD Panel.

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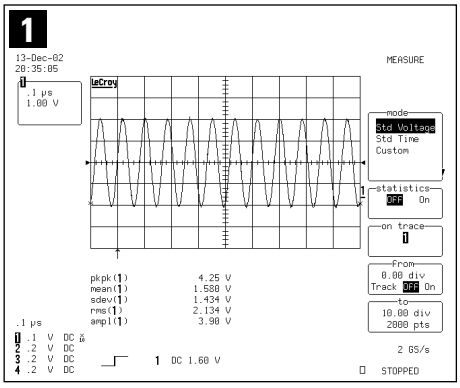
WAVEFORMS

1



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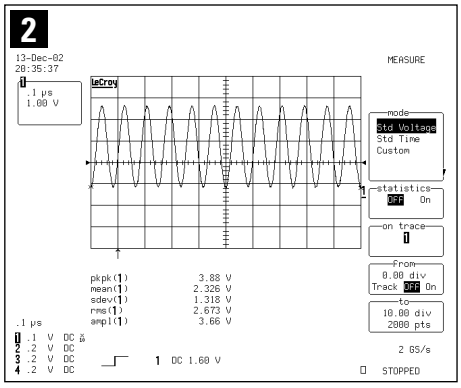

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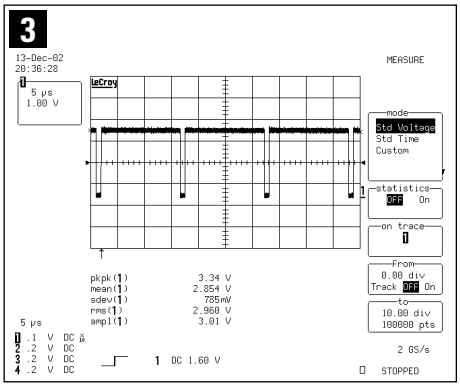

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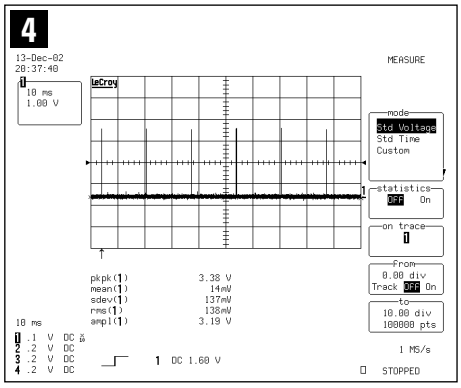

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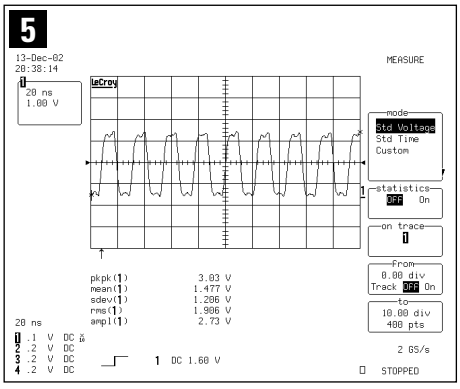

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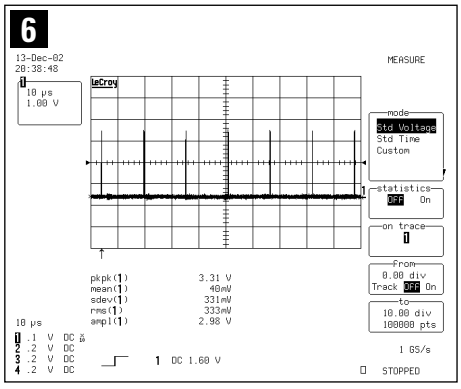

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Memo